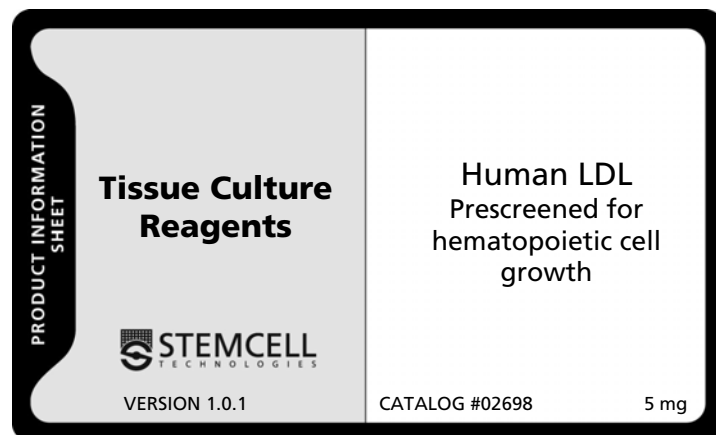


## PRODUCT DESCRIPTION

This product is a human plasma-derived low-density lipoprotein (LDL) based culture supplement that has been prescreened for the culture, expansion and colony assay of human hematopoietic and non-hematopoietic cells in serum-free culture media. It promotes the proliferation and survival of human hematopoietic and other progenitor cells in culture, resulting in increased cell output in expansion cultures and increased colony numbers and/or colony size in colony assays.



## APPLICATIONS

- Expansion of total nucleated cells, CD34<sup>+</sup> cells and colony-forming cells in cultures of purified CD34<sup>+</sup> or lineage-depleted cord blood and bone marrow cells in StemSpan<sup>®</sup> SFEM and StemSpan<sup>®</sup> H3000 serum-free expansion media, supplemented with StemSpan<sup>®</sup> CC100 and CC110 cytokine cocktails.
- Development of megakaryocytes in cultures of purified CD34<sup>+</sup> or lineage-depleted cord blood and bone marrow cells in StemSpan<sup>®</sup> SFEM and StemSpan<sup>®</sup> H3000 serum-free expansion media, supplemented with StemSpan<sup>®</sup> CC220 cytokine cocktail.
- Hematopoietic colony formation in serum-free MethoCult<sup>®</sup> media (MethoCult<sup>®</sup> SF H4436, MethoCult<sup>®</sup> SF H4536, MethoCult<sup>®</sup> SF H4236).
- Megakaryocyte colony formation in collagen-based MegaCult<sup>®</sup>-C medium.

## PRODUCT FORMAT

Human LDL contains a clear micro-emulsion of low-density lipoproteins in an aqueous solution. Each vial contains 5 mg of protein as determined by modified Lowry Method using bovine serum albumin as a standard. The product is filtered using a 0.2 µm filter.

Human LDL used in this product has been derived from human plasma. Plasma was shown to be non-reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2. However, this product should be considered potentially infectious and treated in accordance with universal handling precautions.

This product contains biological reagents, and as such cannot be completely characterized or quantified. Some variability is unavoidable.

This product is aseptically manufactured using tightly controlled processes and is sterility tested.

## PROTEIN CONCENTRATION

- 5 mg/mL

## STABILITY AND STORAGE

Stable for 3 months at 2 - 8°C upon receipt.

Do not freeze.

Some clouding may occur during storage. This does not affect performance.

Warm to room temperature before use.

## DIRECTIONS FOR USE

Use at a concentration between 20 and 40 µg/mL in expansion cultures of purified human hematopoietic cells in StemSpan<sup>®</sup> SFEM and StemSpan<sup>®</sup> H3000, supplemented with growth factors, and in colony assays in serum-free MethoCult<sup>®</sup> media and MegaCult<sup>®</sup>-C media.

Optimal concentrations in other applications should be established by titration. If the product is cloudy, it is recommended to filter the medium through a sterile 0.22 µm filter after addition of the human LDL. Alternatively, if filtration of the medium is not possible, the human LDL can be centrifuged and only the supernatant added to the medium.